

1 (1) 81. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise; and
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management.

1 82. A resource management system as in claim 81, wherein said deficiency
2 database includes information on deficiencies of a resource relating to at least one of
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,
4 compatibility, life cycle cost, quality of construction and mean time between failure, for
5 at least one of the resource itself and differences between the resource and a given
6 resource, a best-in-class resource and an enterprise objective.

1 83. A resource management system as in claim 81, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among
3 resources.

1 84. A resource management system as in claim 81, wherein said deficiency
2 database includes information regarding deficiencies of at least one of operating

3 resources, manufacturing resources and human resources.

1 85. A resource management system as in claim 81, further comprising:
2 an access unit coupled to said processor and arranged to enable a user to
3 access information on a deficiency related to a selected resource used in the enterprise.

1 86. A resource management system as in claim 81 or 85, further comprising:
2 a storage unit coupled to said processor and arranged to store the
3 deficiency database and the resource database.

1 87. A resource management system as in claim 81 or 85, further comprising:
2 an entry unit arranged to enable additional information to be added to at
3 least one of the deficiency database and resource database.

1 88. A resource management system as in claim 81 or 84, wherein said
2 deficiency database includes information on cost impacts of deficiencies.

1 89. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and

6 suitable programming.

1 129. A resource management system as in claim 120 or 127, further
2 comprising:

3 a resource combination analyzer coupled to the deficiency database and
4 resource database and responsive to identification of an enterprise objective to determine
5 a preferred combination of resources to meet the enterprise objective, said resource
6 combination analyzer comprising the processor with suitable programming.

1 130. A resource management system as in claim 120, further comprising:

2 a resource combination evaluator coupled to the deficiency database and
3 resource database and responsive to identification of a combination of resources to
4 indicate deficiencies relating to the combination of resources, said resource combination
5 evaluator comprising the processor with suitable programming.

1 131. A resource management system as in claim 120 or 130, further
2 comprising:

3 a compatibility analyzer coupled to the deficiency database and resource
4 database and responsive to characteristic of a first resource to determine a modification
5 which, when made, enables the first resource to be compatible with a second resource,
6 said compatibility analyzer comprising the processor with suitable programming.

1 132. A process, comprising the steps of:

2 providing a deficiency database including information regarding
 3 deficiencies of resources;
 4 providing a resource database including information about resources used
 5 in an enterprise; and
 6 deriving, with access to the deficiency database and resource database,
 7 information regarding a characteristic of a resource based on one or more deficiencies
 8 related to at least one resource used in the enterprise, the derived information usable for
 9 resource management.

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1 133. A process as in claim 132, wherein the first step comprises:
 2 providing a deficiency database including information on deficiencies of a
 3 resource relating to at least one of resource attributes, characteristics, performance, life,
 4 cost, efficiency, failure modes, compatibility, life cycle cost, quality of construction and
 5 mean time between failure, for at least one of the resource itself and differences between
 6 the resource and a given resource, a best-in-class resource and an enterprise objective.


1 134. A process as in claim 132, wherein the first step comprises:
 2 providing a deficiency database including information regarding
 3 deficiencies relating to interactions among resources.

1 135. A process as in claim 132, wherein the first step comprises:
 2 providing a deficiency database including information regarding
 3 deficiencies of at least one of operating resources, manufacturing resources and human

4 resources.

1 136. A process as in claim 132, wherein the first step comprises:
2 providing a deficiency database including information on cost impacts of
3 deficiencies.

1 137. A process as in claim 132 or 133, wherein the third step comprises:
2 deriving, in response to a value for the estimated life of a resource and to
3 information regarding a deficiency of the resource, a determination regarding effects of
4 use of the resource relative to an operating objective of the enterprise.


1 138. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:
3 deriving, with access to the deficiency database and responsive to a
4 deficiency related to a resource, an estimate of the life of the resource.

1 139. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:
3 deriving, with access to the deficiency database and responsive to a
4 deficiency related to a resource, information on a failure mode associated with the
5 resource.

1 140. A process as in any one of claims 132, 133 and 134, wherein the third step

2 comprises:

3 deriving, with access to the deficiency database and responsive to an
4 indication of a failure mode of a resource, information on at least one deficiency related
5 to the indicated failure mode of the resource.

1 141. A process as in any one of claims 132, 133, 134 and 136, wherein the third
2 step comprises:

3 deriving, with access to the deficiency database and responsive to a
4 deficiency related to a resource, a life cycle cost estimate regarding the resource and said
5 deficiency.

1 142. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to identification of an enterprise objective, an indication of a preferred
5 combination of resources to meet the enterprise objective.

1 143. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to identification of a combination of resources, an indication of deficiencies
5 relating to the combination of resources.

1 144. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to characteristic of a first resource, information on a modification which,
5 when made, enables the first resource to be compatible with a second resource.

1 145. A process as in any one of claims 132, 133 and 134, wherein the third step
2 comprises:

3 deriving, with access to the deficiency database and responsive to
4 information on a failure of a resource, information on possible causes of failure of the
5 resource.

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1 146. A process, comprising the steps of:
2 providing a deficiency database including information regarding
3 deficiencies of resources and deficiencies relating to interactions among resources;
4 providing a resource database including information about at least one of
5 resources used in an enterprise and other resources; and
6 deriving, with access to the deficiency database and resource database and
7 responsive to identification of resources, information regarding deficiencies related to
8 interactions among resources, the derived information usable for resource management.

1 147. A process as in claim 146, wherein the first step comprises:
2 providing a deficiency database including information regarding

7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and

10 an efficiency analyzer, responsive to a value for the estimated life of a
11 resource and to information regarding a deficiency of the resource, to provide a
12 determination regarding effects of use of the resource relative to an operating objective of
13 the enterprise, said efficiency analyzer comprising the processor with suitable
14 programming.

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1 90. A resource management system as in claim 89, wherein said deficiency
2 database includes information on deficiencies of a resource relating to at least one of
3 resource attributes, characteristics, performance, life, cost efficiency, failure modes,
4 compatibility, life cycle cost, quality of construction and mean time between failure, for
5 at least one of the resource itself and differences between the resource and a given
6 resource, a best-in-class resource and an enterprise objective.

1 91. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or

8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and


10 an enterprise performance database including information regarding
11 entities of the enterprise and predictions, decisions and actions of such entities; and
12 an accountability assignor coupled to the enterprise performance database
13 and responsive to an indication of a deficiency to identify an entity responsible for a
14 prediction, decision or action resulted in the deficiency, said accountability assignor
15 comprising the processor with suitable programming.

92. A resource management system as in claim 91, wherein said deficiency
database includes information regarding deficiencies relating to interactions among
resources.

93. A resource management system, comprising:
a deficiency database including information regarding deficiencies of
resources and information on resource life related to at least one said deficiency;
a resource database including information about resources used in an
enterprise;
a processor coupled to the deficiency database and resource database and
arranged to provide information regarding a characteristic of a resource based on one or
more deficiencies related to at least one resource used in the enterprise, the provided
information usable for resource management; and
a resource life estimator, coupled to the deficiency database and

11 responsive to a deficiency related to a resource, to provide an estimate of the life of the
12 resource, said resource life estimator comprising the processor with suitable
13 programming.

1 94. A resource management system as in claim 93, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among
3 resources.

 1 95. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources and including for a resource information on at least one failure mode associated
4 with at least one deficiency related to a resource;
5 a resource database including information about resources used in an
6 enterprise;
7 a processor coupled to the deficiency database and resource database and
8 arranged to provide information regarding a characteristic of a resource based on one or
9 more deficiencies related to at least one resource used in the enterprise, the provided
10 information usable for resource management; and
11 a failure mode predictor, coupled to the deficiency database and
12 responsive to a deficiency related to a resource, to identify a failure mode associated with
13 the resource, said failure mode predictor comprising the processor with suitable
14 programming.

15 96. A resource management system as in claim 95, wherein said deficiency
16 database includes, for a resource, display information relating to a failure mode
17 corresponding to a failure of the resource, the system further comprising:
18 means for prompting a user, by use of said display information, to identify
19 a failure mode by comparison of said display information to the failure of the resource.

1 97. A resource management system as in claim 95, further comprising:
2 a deficiency identifier, coupled to the deficiency database and responsive
3 to an indication of a failure mode of a resource, to identify at least one deficiency related
4 to the indicated failure mode of the resource, said deficiency identifier comprising the
5 processor with suitable programming.

1 98. A resource management system as in claim 97, wherein said deficiency
2 database includes for a resource information on at least one corrective action associated
3 with a failure mode, and the deficiency analyzer is responsive to an indication of a failure
4 mode of a resource to identify at least one corrective action related to the failure mode.

1 99. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources and life cycle cost information;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and

7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and
10 a life cycle cost analyzer, coupled to the deficiency database and
11 responsive to a deficiency related to a resource, to provide a life cycle cost estimate
12 regarding the resource and said deficiency, said life cycle cost analyzer comprising the
13 processor with suitable programming.

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1 100. A resource management system as in claim 99, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among
3 resources.

1 101. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management;
10 a competitive price database including competitive pricing information
11 about resources; and

12 a pricing analyzer coupled to the competitive price database and
13 responsive to information regarding a desired resource to provide an indication of a
14 price for the desired resource, said pricing analyzer comprising the processor with
15 suitable programming.

1 102. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and
10 a resource combination analyzer coupled to the deficiency database and
11 resource database and responsive to identification of an enterprise objective to determine
12 a preferred combination of resources to meet the enterprise objective, said resource
13 combination analyzer comprising the processor with suitable programming.

1 103. A resource management system as in claim 102, wherein said deficiency
2 database includes information on deficiencies of a resource relating to at least one of
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,
4 compatibility, life cycle cost, quality of construction and mean time between failure, for

5 at least one of the resource itself and differences between the resource and a given
6 resource, a best-in-class resource and an enterprise objective.

1 104. A resource management system as in claim 102, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among
3 resources.

1 105. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and
10 a resource combination evaluator coupled to the deficiency database and
11 resource database and responsive to identification of a combination of resources to
12 indicate deficiencies relating to the combination of resources, said resource combination
13 evaluator comprising the processor with suitable programming.

1 106. A resource management system as in claim 105, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among

3 resources.

1 107. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management;
10 a resource specification database including information regarding
11 manufactured resource; and
12 a resource specifier coupled to the resource specification database and
13 responsive to identification of a desired resource to provide a specification for the desired
14 resource, said resource specifier comprising the processor with suitable programming.

1 108. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources and at least one corrective action associated with a deficiency of a resource;
4 a resource database including information about resources used in an
5 enterprise;
6 a processor coupled to the deficiency database and resource database and

7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and

10 means to access at least one corrective action associated with a deficiency
11 of a resource, said means comprising the processor with suitable programming.

1 109. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;

4 a resource database including information about resources used in an
5 enterprise;

6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and

10 a compatibility analyzer coupled to the deficiency database and resource
11 database and responsive to characteristic of a first resource to determine a modification,
12 which when made, enables the first resource to be compatible with a second resource,
13 said compatibility analyzer comprising the processor with suitable programming.

1 110. A resource management system as in claim 109, wherein said deficiency
2 database includes information regarding deficiencies relating to interactions among
3 resources.

1 111. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources, including human resources of the enterprise;
4 a resource database including information about resources used in an
5 enterprise and skill levels required for tasks within the enterprise;
6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and
10 a compatibility analyzer coupled to the deficiency database and resource
11 database and arranged to indicate deficiencies in the association of a human resource
12 with a resource of the enterprise, said compatibility analyzer comprising the processor
13 with suitable programming.

1 112. A resource management system as in claim 111, wherein said deficiency
2 database includes information regarding deficiencies of at least one of operating
3 resources, manufacturing resources and human resources.

1 113. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources and deficiencies relating to interactions among resources;
4 a resource database including information about resources used in an

5 enterprise;

6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or
8 more deficiencies related to at least one resource used in the enterprise, the provided
9 information usable for resource management; and

10 a deficiency analyzer, coupled to the deficiency database and responsive
11 to identification of a combination of resources, to identify deficiencies related to
12 interactions among resources of the combination.

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1 114. A resource management system as in claim 113, wherein said deficiency
2 database includes information on deficiencies of a resource relating to at least one of
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,
4 compatibility, life cycle cost, quality of construction and mean time between failure, for
5 at least one of the resource itself and differences between the resource and a given
6 resource, a best-in-class resource and an enterprise objective.

1 115. A resource management system, comprising:
2 a deficiency database including information regarding deficiencies of
3 resources;

4 a resource database including information about resources used in an
5 enterprise;

6 a processor coupled to the deficiency database and resource database and
7 arranged to provide information regarding a characteristic of a resource based on one or

8 more deficiencies related to at least one resource used in the enterprise, the provided
 9 information usable for resource management; and
 10 a failure analyzer coupled to the deficiency database and responsive to
 11 information on a failure of a resource to identify possible causes of failure of the
 12 resource, said failure analyzer comprising the processor with suitable programming.

1 116. A resource management system as in claim 115, wherein the failure
 2 analyzer is arranged to indicate a corrective action.

1 117. A resource management system as in claim 115, wherein the failure
 2 analyzer is arranged to determine a specification for a product for replacement to the
 3 resource subject to the failure.

1 118. A resource management system as in claim 117, wherein the failure
 2 analyzer is arranged to provide installation instructions for said product.

1 119. A resource management system as in claim 115, wherein said deficiency
 2 database includes information regarding deficiencies relating to interactions among
 3 resources.

1 120. A resource management system, comprising:
 2 a deficiency database including information regarding deficiencies of
 3 resources and deficiencies relating to interactions among resources;

4 a resource database including information about at least one of resources
 5 used in an enterprise and other resources; and
 6 a processor coupled to the deficiency database and resource database and
 7 responsive to identification of resources to provide information regarding deficiencies
 8 related to interactions among resources, the provided information usable for resource
 9 management.

1 121. A resource management system as in claim 120, wherein said deficiency
 2 database includes information regarding deficiencies of at least one of operating
 3 resources, manufacturing resources and human resources.

1 122. A resource management system as in claim 120, further comprising:
 2 an access unit coupled to said processor and arranged to enable a user to
 3 access information on deficiencies related to interactions among resources.

1 123. A resource management system as in claim 120, further comprising:
 2 an access unit coupled to said processor and arranged to enable a user to
 3 identify a combination of resources and access information related to interactions among
 4 the identified resources.

1 124. A resource management system as in claim 120 or 123, further
 2 comprising:
 3 a storage unit coupled to said processor and arranged to store the

4 deficiency database and the resource database.

1 125. A resource management system as in claim 120 or 123, further
2 comprising:

3 an entry unit arranged to enable additional information to be added to at
4 least one of the deficiency database and resource database.

1 126. A resource management system as in claim 120 or 121, wherein said
2 deficiency database includes information on cost impacts of deficiencies.

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1 127. A resource management system as in claim 120, wherein the deficiency
2 database includes information on at least one failure mode associated with at least one
3 deficiency related to an interaction among resources, the system further comprising:
4 a failure mode predictor, coupled to the deficiency database and
5 responsive to a deficiency related to an interaction among resources, to identify a failure
6 mode associated with said interaction, said failure mode predictor comprising the
7 processor with suitable programming.

1 128. A resource management system as in claim 120 or 127, further
2 comprising:
3 a deficiency identifier, coupled to the deficiency database and responsive
4 to identification of a combination of resources, to identify deficiencies related to the
5 combination of resources, said deficiency identifier comprising the processor with

3 deficiencies of at least one of operating resources, manufacturing resources and human
4 resources.

1 148. A process as in claim 146, wherein the first step comprises:
2 providing a deficiency database including information on cost impacts of
3 deficiencies.

1 149. A process as in claim 146, wherein the first step comprises:
2 providing a deficiency database including information on at least one
3 failure mode associated with at least one deficiency related to an interaction among
4 resources.

1 150. A process as in claim 149, wherein the third step comprises:
2 deriving, with access to the deficiency database and responsive to a
3 deficiency related to an interaction among resources, an indication of a failure mode
4 associated with said interaction.

1 151. A process as in any one of claims 146, 147 and 149, wherein the third step
2 comprises:
3 deriving, with access to the deficiency database and responsive to
4 identification of a combination of resources, an indication of deficiencies related to the
5 combination of resources.

1 152. A process as in any one of claims 146, 147, 148 and 149, wherein the third
2 step comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to identification of an enterprise objective, an indication of a preferred
5 combination of resources to meet the enterprise objective.

1 153. A process as in any one of claims 146, 147 and 148, wherein the third step
2 comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to identification of a combination of resources, an indication of deficiencies
5 relating to the combination of resources.

1 154. A process as in any one of claims 146, 147, 148 and 149, wherein the third
2 step comprises:

3 deriving, with access to the deficiency database and resource database and
4 responsive to characteristic of a first resource, information on a modification, which
5 when made, enables the first resource to be compatible with a second resource.
